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Elektromagnetisk kompatibilitet (EMC) – Del 4-12: Mät- och provningsmetoder – Provning av immunitet mot dämpade svängningar (ringvåg)

*Electromagnetic compatibility (EMC) –
Part 4-12: Testing and measurement techniques –
Ring wave immunity test*

Som svensk standard gäller europastandarden EN 61000-4-12:2006. Den svenska standarden innehåller den officiella engelska språkversionen av EN 61000-4-12:2006.

Nationellt förord

Europastandarden EN 61000-4-12:2006

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61000-4-12, Second edition, 2006 - Electromagnetic compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 61000-4-12, utgåva 1, 1995 och SS-EN 61000-4-12/A1, utgåva 1, 2001, gäller ej fr o m 2009-11-01.

ICS 33.100.20

Denna standard är fastställd av Svenska Elektriska Kommissionen, SEK, som också kan lämna upplysningar om **sakinnehållet** i standarden.

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English version

Electromagnetic compatibility (EMC)
Part 4-12: Testing and measurement techniques -
Ring wave immunity test
(IEC 61000-4-12:2006)

Compatibilité électromagnétique (CEM)
Partie 4-12: Techniques d'essai
et de mesure -
Essai d'immunité à l'onde
sinusoïdale amortie
(CEI 61000-4-12:2006)

Elektromagnetische Verträglichkeit (EMV)
Teil 4-12: Prüf- und Messverfahren -
Störfestigkeit gegen gedämpfte
Sinusschwingungen (Ringwave)
(IEC 61000-4-12:2006)

This European Standard was approved by CENELEC on 2006-11-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 77B/509/FDIS, future edition 2 of IEC 61000-4-12, prepared by SC 77B, High frequency phenomena, of IEC TC 77, Electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61000-4-12 on 2006-11-01.

This European Standard supersedes EN 61000-4-12:1995 + A1:2001.

It constitutes a technical revision of the characteristics and performance of the test equipment. It only addresses the ring wave immunity test.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2007-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-11-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61000-4-12:2006 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

- | | |
|---------------|--|
| IEC 60068-1 | NOTE Harmonized as EN 60068-1:1994 (not modified). |
| IEC 61000-4-5 | NOTE Harmonized as EN 61000-4-5:2006 (not modified). |
| IEC 61010-1 | NOTE Harmonized as EN 61010-1:2001 (not modified). |
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Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-161	¹⁾	International Electrotechnical Vocabulary (IEV) Chapter 161: Electromagnetic compatibility	-	-

¹⁾ Undated reference.

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ELECTROMAGNETIC COMPATIBILITY (EMC) –**Part 4-12: Testing and measurement techniques –
Ring wave immunity test****1 Scope and object**

This part of IEC 61000 relates to the immunity requirements and test methods for electrical and electronic equipment, under operational conditions, to non-repetitive damped oscillatory transients (ring waves) occurring in low-voltage power, control and signal lines supplied by public and non-public networks.

The object of this basic standard is to establish the immunity requirements and a common reference for evaluating in a laboratory the performance of electrical and electronic equipment intended for residential, commercial and industrial applications, as well as of equipment intended for power stations and substations, as applicable.

NOTE As described in IEC Guide 107, this is a basic EMC publication for use by product committees of the IEC. As also stated in Guide 107, the IEC product committees are responsible for determining whether this immunity test standard should be applied or not, and if applied, they are responsible for determining the appropriate test levels and performance criteria. TC 77 and its sub-committees are prepared to co-operate with product committees in the evaluation of the value of particular immunity tests for their products.

The purpose of this standard is to define:

- test voltage and current waveforms;
- ranges of test levels;
- test equipment;
- test set-up;
- test procedure.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050(161): *International Electrotechnical Vocabulary (IEV) – Chapter 161: Electromagnetic compatibility*

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